

Table 1 Abundance of woody species, woody species richness and Shannon diversity index by age classes across 32 plots in native forest of Uruguay, South America.

id	Number of individuals			Species richness			Shannon diversity index		
	Juveniles & Adults	Adults	Juveniles	Juveniles & Adults	Adults	Juveniles	Juveniles & Adults	Adults	Juveniles
1	34	5	29	13	12	4	2.27	1.33	2.24
2	31	12	19	9	9	5	2.02	1.55	2.06
3	47	13	34	11	9	8	2.08	1.99	1.94
4	37	11	26	11	11	5	2.13	1.47	2.16
5	65	17	48	11	10	8	2.29	1.98	2.18
6	27	8	19	11	9	5	2.17	1.49	2.07
7	53	15	38	13	12	8	2.34	1.96	2.23
8	80	15	65	18	16	11	2.52	2.34	2.4
9	67	14	53	15	14	10	2.41	2.21	2.35
10	53	13	40	7	7	6	1.88	1.7	1.83
11	72	26	46	15	12	10	2.51	2.16	2.3
12	38	11	27	11	9	6	2.04	1.72	1.84
13	61	21	40	16	10	11	2.41	2.28	1.97
14	44	15	29	12	9	8	2.25	1.96	1.96
15	48	15	33	15	8	11	2.37	2.3	1.94
16	86	20	66	16	12	11	2.5	2.29	2.26
17	25	18	7	11	6	8	2.27	2	1.75
18	70	17	53	16	15	11	2.53	2.28	2.4
19	74	25	49	16	11	12	2.48	2.39	2.21
20	99	20	79	17	16	12	2.68	2.36	2.58
21	89	26	63	20	18	15	2.78	2.63	2.7
22	68	14	54	13	13	7	2.33	1.83	2.3
23	55	20	35	12	8	9	2.17	2.13	1.87
24	86	20	66	17	14	11	2.58	2.29	2.49
25	79	19	60	13	12	9	2.36	2.1	2.28
26	191	29	162	31	30	14	3.25	2.54	3.24
27	80	27	53	17	12	15	2.53	2.58	2.31
28	114	22	92	24	20	14	2.95	2.52	2.78
29	58	26	32	17	10	14	2.6	2.56	2.07
30	77	25	52	24	17	14	2.88	2.55	2.56
31	180	27	153	38	36	16	3.43	2.67	3.42
32	161	23	138	34	31	15	3.21	2.56	3.17

Table 2. Percentage of cover occupied by each land use type in the landscape from 1987 to 2017 in a buffer of 3km from the central point of each plot (N=32; Uruguay, South America).

id	Native forests				Grassland				Timber plantations				Crops			
	1987	1997	2007	2017	1987	1997	2007	2017	1987	1997	2007	2017	1987	1997	2007	2017
1	20.3	16.9	18.9	10.1	70.1	45.6	47.5	19.4	0.4	0.0	0.3	0.0	8.2	36.4	32.1	67.9
2	1.9	9.2	8.2	13.7	91.7	54.9	53.4	56.9	0.4	33.0	36.6	18.7	6.0	2.9	1.8	10.7
3	5.4	6.9	7.8	9.4	90.2	49.4	69.0	61.1	0.2	6.9	3.6	13.4	4.1	36.6	19.5	16.1
4	12.2	5.5	6.8	14.4	87.3	92.8	65.6	40.9	0.1	0.0	27.3	36.1	0.5	1.6	0.3	8.6
5	18.5	25.8	21.8	26.6	73.7	49.4	48.4	46.3	0.3	11.2	18.2	12.7	1.9	8.3	6.7	8.5
6	6.7	6.4	0.9	7.4	87.9	71.4	53.9	35.7	3.8	7.4	43.2	54.3	1.6	14.9	2.0	2.6
7	0.0	1.3	2.9	0.7	46.6	36.8	30.7	23.8	0.8	2.7	7.4	18.5	0.1	0.9	2.0	0.7
8	58.8	51.4	58.6	56.6	40.9	47.7	36.3	34.5	0.0	0.0	0.1	0.1	0.2	0.2	5.0	7.5
9	5.2	2.1	4.1	8.5	94.4	79.9	62.9	52.6	0.1	18.0	31.3	38.5	0.4	0.0	1.7	0.3
10	9.6	15.0	10.5	14.9	86.7	81.7	85.6	63.1	0.3	0.1	0.1	11.3	0.0	0.1	0.1	7.1
11	1.1	3.2	1.0	12.1	98.3	93.7	95.0	54.4	0.6	2.9	3.7	31.0	0.0	0.1	0.1	2.3
12	16.4	19.0	17.9	18.0	59.2	47.8	47.9	32.5	0.0	0.0	0.0	0.0	24.2	23.3	23.7	38.7
13	4.8	5.1	6.0	8.1	93.7	83.7	81.2	67.2	0.0	0.0	0.0	0.2	1.1	11.2	12.3	24.2
14	14.2	13.2	14.3	11.5	69.1	86.4	69.0	72.0	0.2	0.1	16.7	16.3	0.0	0.1	0.0	0.0
15	21.1	7.4	15.5	13.8	70.7	87.8	84.4	49.3	0.0	0.1	0.1	36.7	0.0	4.6	0.0	0.2
16	15.1	32.5	23.3	15.0	61.9	41.3	24.4	28.5	0.0	26.2	52.2	51.9	0.0	0.0	0.0	4.2
17	10.0	7.8	7.4	5.8	48.7	73.7	81.5	66.4	0.0	0.2	0.0	0.0	41.0	18.2	10.8	27.6
18	3.8	7.5	3.7	9.2	95.8	91.9	95.8	79.5	0.2	0.1	0.2	11.0	0.2	0.4	0.3	0.3
19	11.0	4.5	6.1	6.7	65.8	66.0	55.5	25.3	0.1	13.3	10.2	11.1	23.1	16.2	28.2	56.8
20	17.5	19.6	22.2	46.8	65.6	79.7	68.1	36.1	16.9	0.0	3.7	0.1	0.0	0.7	5.9	13.0
21	20.9	25.0	25.5	45.7	67.6	61.3	55.0	40.5	7.3	0.0	2.9	0.4	1.2	10.2	14.5	7.4
22	16.1	20.2	10.9	11.4	81.7	70.4	74.7	76.8	0.0	7.0	12.4	9.8	0.0	0.2	0.0	0.3
23	10.9	20.8	20.9	22.3	88.9	79.2	62.4	61.3	0.1	0.0	16.7	16.4	0.0	0.0	0.0	0.0
24	6.9	13.5	8.5	13.5	60.2	85.9	72.8	67.7	32.8	0.6	18.6	18.7	0.0	0.0	0.0	0.1

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25	4.6	3.1	7.0	7.3	95.3	96.4	51.0	63.9	0.1	0.0	42.0	26.6	0.0	0.6	0.0	2.2
26	6.4	6.1	7.9	9.9	93.6	93.1	91.8	61.6	0.0	0.1	0.0	27.5	0.0	0.0	0.1	0.4
27	3.9	7.2	8.8	7.4	96.1	91.4	79.4	79.0	0.0	0.1	10.0	11.5	0.0	1.4	1.6	2.1
28	19.2	34.1	37.9	36.8	70.6	35.4	53.2	21.5	0.0	0.1	0.0	0.0	3.6	24.7	5.2	39.6
29	3.1	1.6	1.8	5.6	96.5	97.7	98.2	83.9	0.3	0.0	0.0	10.0	0.0	0.7	0.0	0.4
30	7.1	7.6	10.2	15.7	92.8	92.4	89.8	80.4	0.1	0.0	0.0	3.9	0.0	0.0	0.0	0.0
31	2.8	1.6	1.1	2.7	96.9	97.5	98.9	96.0	0.2	0.0	0.0	1.0	0.0	0.9	0.0	0.4
32	11.4	10.8	11.4	15.6	87.4	86.8	86.9	82.0	0.2	0.0	0.0	0.0	0.0	0.6	0.7	0.1

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Table 3. Landscape shape index by each land use type in the landscape from 1987 to 2017 in a buffer of 3km from the central point of each plot (N=32; Uruguay, South America).

id	Native forests				Grassland				Timber plantations				Croplands			
	1987	1997	2007	2017	1987	1997	2007	2017	1987	1997	2007	2017	1987	1997	2007	2017
1	12.7	10.4	11.8	10.0	9.5	14.9	18.3	22.3	2.3		3.7		10.6	16.3	17.1	10.9
2	8.9	14.3	11.7	15.4	3.4	9.4	11.6	13.1	2.5	6.8	8.2	8.3	4.4	4.7	6.3	5.8
3	8.3	9.7	8.9	9.5	4.3	17.7	9.7	12.5	2.2	6.6	5.8	6.0	7.1	14.2	9.3	13.8
4	11.8	8.4	13.4	17.2	5.4	3.6	10.3	13.4	2.7		11.6	9.0	4.1	4.9	3.8	2.9
5	9.4	11.2	11.1	11.3	5.9	13.8	14.2	13.9	2.7	11.5	9.0	10.0	9.3	5.3	9.8	7.0
6	15.9	13.6	8.4	19.3	6.0	10.1	13.7	18.0	2.8	5.6	14.6	13.2	4.9	10.8	5.0	5.1
7	1.2	5.3	13.7	7.6	4.4	6.9	9.5	14.5	5.1	7.0	7.3	13.8	2.1	3.1	4.5	4.9
8	8.9	7.0	7.5	8.8	10.3	6.8	9.7	10.2	2.8		1.6	2.6	4.6	2.6	2.5	4.1
9	13.6	8.2	10.8	14.8	4.2	4.7	11.4	16.9	2.6	5.2	12.0	16.0	4.0		4.0	2.7
10	13.7	12.7	12.8	15.7	5.0	5.5	4.5	9.8	3.7	1.1	1.2	8.4	1.0	2.8	2.4	3.8
11	8.3	12.1	7.5	23.9	2.2	2.6	2.1	16.0	2.1	5.1	3.4	14.7		2.4	2.7	5.4
12	14.7	15.3	13.7	13.0	10.2	16.2	16.3	20.3					16.3	18.6	13.4	13.5
13	7.7	7.1	9.2	9.0	3.2	6.4	6.2	9.1	1.0		1.6	4.7	3.6	10.4	7.9	9.4
14	16.0	11.7	14.1	15.4	4.9	5.5	6.5	8.5	3.5	2.5	6.2	7.6		1.6	1.0	1.3
15	8.7	8.0	10.7	11.1	4.2	3.7	5.5	7.1		2.3	1.6	4.8		2.7		2.7
16	9.4	24.6	15.5	12.2	7.6	10.3	8.5	12.3		16.8	7.5	7.5				3.4
17	12.1	10.0	10.0	9.4	14.0	9.0	8.9	8.2		2.1			11.7	10.8	14.6	8.2
18	11.8	13.2	11.9	20.9	3.7	5.0	3.6	8.3	1.9	3.1	2.6	11.7	4.1	2.9	2.7	3.9
19	14.6	8.3	11.7	12.0	12.3	12.3	18.3	20.9	1.0	8.3	6.7	7.5	15.3	13.1	18.2	12.7
20	12.2	10.9	11.1	8.8	6.4	5.8	7.4	9.6	2.8		1.7	3.5	2.1	1.8	4.2	6.3
21	10.4	9.4	8.6	7.4	7.4	7.9	7.5	8.6	2.6		2.1	5.0	4.7	3.8	5.4	8.8
22	10.4	16.1	12.6	13.8	5.4	10.9	7.7	8.3		7.9	7.9	10.9		4.5	1.9	4.8
23	15.3	18.3	18.3	23.3	6.3	10.1	12.2	14.2	1.1		5.8	9.5				
24	10.8	15.5	10.7	12.4	3.5	7.5	6.4	10.9	3.3	3.6	7.3	11.0				2.4
25	14.2	13.5	17.6	15.0	4.3	3.4	12.9	16.8	2.6	1.8	11.5	19.3		1.8		4.6

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26	8.3	9.6	9.2	10.5	2.9	2.9	3.4	8.0		2.7		6.2		3.1	5.3
27	10.9	11.3	13.2	12.3	3.3	4.9	7.7	8.4		1.3	7.5	7.7	6.0	7.9	6.7
28	13.8	9.7	8.5	11.1	12.4	7.0	7.4	25.8		2.9			8.1	4.4	12.1
29	12.1	8.4	8.8	14.9	3.4	2.7	2.3	5.5	3.2			6.1	6.1		6.0
30	13.5	12.7	14.2	16.1	4.8	4.7	5.9	7.1	2.6			6.6			1.6
31	12.9	9.4	8.1	11.7	3.3	2.9	2.0	3.4	2.9			3.6	5.9		6.0
32	15.8	16.1	14.7	16.2	5.7	6.2	6.2	7.5	4.6				5.1	4.5	2.3

Table 4. Aggregation index by each land use type in the landscape from 1987 to 2017 in a buffer of 3km from the central point of each plot (N=32; Uruguay, South America).

id	Native forests				Grassland				Timber plantations				Croplands			
	1986	1996	2007	2017	1986	1996	2007	2017	1986	1996	2007	2017	1986	1996	2007	2017
1	85	87	86	84	94	88	86	72	87		68		81	86	84	93
2	66	75	78	78	99	94	92	91	85	94	93	90	92	87	76	92
3	81	81	84	84	98	86	94	92	84	88	85	92	82	88	89	82
4	82	82	72	76	97	98	93	89	58		88	92	72	82	67	96
5	89	89	88	89	97	90	89	89	80	82	89	85	64	91	80	88
6	67	71	52	61	97	94	90	84	95	90	88	91	82	85	84	85
7	86	77	56	53	97	94	91	84	71	78	87	83	75	87	85	70
8	95	95	95	94	92	95	92	91	36		79	60	56	77	96	93
9	68	70	72	73	98	98	93	87	48	94	89	86	69		86	79
10	76	83	79	78	98	97	98	94	66	97	95	87	100	64	52	94
11	59	63	60	62	99	99	99	88	91	86	93	86		52	53	83
12	81	81	83	84	93	87	87	81					82	79	85	89
13	82	84	81	84	99	97	97	94	100		57	34	85	84	89	90
14	77	83	80	76	97	97	96	95	60	65	93	91		80	100	
15	90	85	86	84	98	98	97	95		78	87	96		95		71
16	88	76	83	83	95	92	91	88		82	95	95				93
17	80	81	81	80	89	95	95	95		83			90	87	76	92
18	68	74	67	62	98	98	98	95	88	63	77	81	55	82	81	65
19	76	80	75	75	92	92	87	77	100	89	90	89	83	83	81	91
20	85	87	88	93	96	97	96	92	97		98	52	50	94	92	92
21	88	90	91	95	96	95	95	93	97		96	61	80	95	93	83
22	87	81	80	78	97	93	96	95		85	89	82		50	54	53
23	75	78	78	73	97	94	92	90	98		93	88				
24	78	77	81	82	98	96	96	93	98	78	92	87				54
25	64	58	64	70	98	99	90	89	67	25	91	80		94		85
26	83	80	83	83	99	99	99	95		44		94			57	56

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27	71	78	76	76	99	98	96	95		95	88	89		74	68	77
28	83	92	93	90	92	94	95	69		51			78	96	82	90
29	63	65	65	66	99	99	99	97	75			91		61		48
30	73	75	76	78	98	98	97	96	44			83				40
31	58	60	59	62	99	99	99	99	75			84		68		50
32	75	74	77	78	97	97	97	96	41					67	75	52